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## NOTICE OF ALLOWANCE AND FEE(S) DUE

5514 7590 11/15/2005

FITZPATRICK CELLA HARPER & SCINTO  
30 ROCKEFELLER PLAZA  
NEW YORK, NY 10112

EXAMINER

ALI, MOHAMMAD

ART UNIT

PAPER NUMBER

2166

DATE MAILED: 11/15/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/651,243	08/30/2000	RICHARD REISMAN	1311.1300	1384

TITLE OF INVENTION: TASK/DOMAIN SEGMENTATION IN APPLYING FEEDBACK TO COMMAND CONTROL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$700	\$0	\$700	02/15/2006

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.**

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail**

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**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

5514 7590 11/15/2005

**FITZPATRICK CELLA HARPER & SCINTO  
30 ROCKEFELLER PLAZA  
NEW YORK, NY 10112**

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

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nonprovisional	YES	\$700	\$0	\$700	02/15/2006

EXAMINER	ART UNIT	CLASS-SUBCLASS
ALI, MOHAMMAD	2166	707-010000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1	_____
2	_____
3	_____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s):

- ☐ A check in the amount of the fee(s) is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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EXAMINER

ALI, MOHAMMAD

ART UNIT

PAPER NUMBER

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## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)** (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 486 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 486 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

**Notice of Allowability**

Application No.

09/651,243

Examiner

Mohammad Ali

Applicant(s)

REISMAN, RICHARD

Art Unit

2167

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/23/04.
2. ☒ The allowed claim(s) is/are 1,6,7,11,12,16,17,21,39-49 and 58-78 (Renumbered as 1-40).
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some\* c) ☐ None of the:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  
\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  
1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.  
(b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 8/22/05.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                                 |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>6/27/05</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                        |
|   | 9. <input type="checkbox"/> Other _____   |

  
**MOHAMMAD ALI**  
**PRIMARY EXAMINER**

### **DETAILED ACTION**

1. This communication is in response to the Amendment filed on 11/23/04.

After a search and a thorough examination of the present application and in light of the prior art made of records, claims 1, 6-7, 11-12, 16-17, 21, 39-49, and 58-78 are allowed.

Claims 2-5, 8-10, 13-15, 18-20, 22-38, 50-57 have been cancelled.

### **EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney, Donald Min (Reg. No. 47,796) on June 27, 2005.

**Please amend the claims which was filed on 11/23/04 with the new versions as follows:**

1. (Currently Amended) An apparatus for responding to a current user command associated with one of a plurality of task/domains, the apparatus comprising:

means for storing cumulative feedback data gathered from multiple users during previous operations of the apparatus and segregated in accordance with the plurality of task/domains;

means for determining a current task/domain with which a current user command inputted by a user is associated;

means for determining a current response to the current user command based on a portion of the stored cumulative feedback data gathered from the multiple users that is associated with the current task/domain;

means for communicating to the user the current response; and

means for receiving from the user current feedback data regarding the current response,

wherein the current feedback data is added to the portion of the stored cumulative feedback data associated with the current task/domain, and

wherein the current task/domain determining means determines the current task/domain by inferring the current user task/domain from at least one of past and current user behavior.

Claims 2-5. (Cancel)

6. (Currently Amended) An apparatus according to Claim 1, wherein:
- the apparatus is a server on a wide area network,
- a user command comprises one of a query for a discovery searching task/domain and a signifier for a signifier mapping task/domain[, and

the current task/domain determining means determines which task/domain is currently intended by examining at least one of past and current user behavior].

7. (Currently Amended) A computer-implemented method for responding to a current user command associated with one of a plurality of task/domains, comprising:

determining a current task/domain with which a current user command inputted by a user is associated;

determining a current response to the current user command based on stored cumulative feedback data associated with the current task/domain, wherein the stored cumulative feedback data is gathered from previous iterations of the method and segregated in accordance with the plurality of task/domains;

communicating to the user the current response;

receiving from the user current feedback data regarding the current response; and

storing the current feedback data,

wherein the stored current feedback data is added to the stored cumulative feedback data associated with the current task/domain, and

wherein the current task/domain is determined by inferring the current task/domain from at least one of past and current user behavior.

**Claims 8-10. (Cancel)**

11. (Currently Amended) A method according to Claim 7, wherein:  
the method is performed by an apparatus functioning as a server on a wide area network,  
a user command comprises one of a query for a discovery searching task/domain and a signifier for a signifier mapping task/domain[, and  
the current task/domain is determined by examining at least one of past and current user behavior].

12. (Currently Amended) A computer-readable storage medium storing program code executable by a program-controlled apparatus, wherein the code is operable to cause the apparatus to:  
determine a current task/domain with which a current user command inputted by a user is associated;  
determine a current response to the current user command based on stored cumulative feedback data associated with the current task/domain, wherein the stored cumulative feedback data is gathered from previous iterations of the method and segregated in accordance with the plurality of task/domains;  
communicate to the user the current response;  
receive from the user current feedback data regarding the current response; and



store the current feedback data,  
wherein the stored current feedback data is added to the stored  
cumulative feedback data associated with the current task/domain, and  
wherein the current task/domain is determined by inferring the current  
task/domain from at least one of past and current user behavior.

**Claims 13-15. (Cancel)**

16. (Currently Amended) A computer-readable medium according to Claim 12,  
wherein:

the apparatus functions as a server on a wide area network,  
a user command comprises one of a query for a discovery searching  
task/domain and a signifier for a signifier mapping task/domain[, and  
the current task/domain is determined by examining at least one of past  
and current user behavior].

17. (Currently Amended) An apparatus for responding to a current user  
command associated with one of a plurality of task/domains, the apparatus comprising:  
a digital storage device that stores cumulative feedback data gathered  
during previous operations of the apparatus and segregated in accordance with the  
plurality of task/domains;

a first digital logic device that determines a current task/domain with which a current user command inputted by a user is associated;

a second digital logic device that determines a current response to the current user command based on a portion of the stored cumulative feedback data associated with the current task/domain;

a first communication interface that communicates to the user the current response; and

a second communication interface that receives from the user current feedback data regarding the current response, wherein the current feedback data is added to the portion of the stored cumulative feedback data associated with the current task/domain, and

wherein the first digital logic device determines the current task/domain by inferring the current user task/domain from at least one of past and current user behavior.

**Claims 18-20. (Cancel)**

21. (Currently Amended) An apparatus according to Claim 17, wherein:  
the apparatus is a server on a wide area network,  
a use command comprises one of a query for a discovery searching task/domain and a signifier for a signifier mapping task/domain[, and

the first digital logic device determines which task/domain is currently intended by examining at least one of past and current user behavior].

Claims 22-38. (Previously Canceled)

39. (Previously Presented) An apparatus according to Claim 1, wherein each of the plurality of task/domains corresponds to a category that the current user command is to be performed in.

40. (Previously Presented) An apparatus according to Claim 1, wherein an objective of the current user command is determined from the current user command, and the determined objective is carried out within the current task/domain determined for the user command.

41. (Previously Presented) A method according to Claim 7, wherein each of the plurality of task/domains corresponds to a category that the current user command is to be performed in.

42. (Previously Presented) A method according to Claim 7, further comprising the steps of:

determining an objective of the current user command from the current user command; and

carrying out the determined objective within the current task/domain determined for the user command.

43. (Previously Presented) A method according to Claim 7, wherein the stored cumulative feedback data is gathered from multiple users.

44. (Previously Presented) A computer-readable medium according to Claim 12, wherein the current of task/domain corresponds to a category that the current user command is to be performed in.

45. (Previously Presented) A computer-readable medium according to Claim 12, wherein the code is operable to cause the apparatus to:

determine an objective of the current user command from the current user command; and

carry out the determined objective within the current task/domain determined for the user command.

46. (Previously Presented) A computer-readable medium according to Claim 12, wherein the stored cumulative feedback data is gathered from multiple users.

47. (Previously Presented) An apparatus according to Claim 17, wherein each of the plurality of task/domains corresponds to a category that the current user command is to be performed in.

48. (Previously Presented) An apparatus according to Claim 17, wherein an objective of the current user command is determined from the current user command, and the determined objective is carried out within the current task/domain determined for the user command.

49. (Previously Presented) An apparatus according to Claim 17, wherein the stored cumulative feedback data is gathered from multiple users.

Claims 50-57. (Previously Canceled)

58. (Previously Presented) An apparatus according to Claim 1, wherein the multiple users include the user that inputted the current user command.

59. (Previously Presented) An apparatus according to Claim 1, wherein the storage means includes a table, and the task/domain segregation is by order of storage in the table.

60. (Previously Presented) An apparatus according to Claim 1, wherein the cumulative feedback data is segregated for identified and unidentified task/domains.

61. (Previously Presented) An apparatus according to Claim 1, wherein the storage means includes a non-tabular data structure.

62. (Previously Presented) A method according to Claim 7, wherein the cumulative feedback data is stored in a table, and the task/domain segregation is by order of storage in the table.

63. (Previously Presented) A method according to Claim 7, wherein the cumulative feedback data is segregated for identified and unidentified task/domains.

64. (Previously Presented) A method according to Claim 7, wherein the cumulative feedback data is stored in a non-tabular data structure.

65. (Previously Presented) A computer-readable medium according to Claim 12, wherein the cumulative feedback data is stored in a table, and the task/domain segregation is by order of storage in the table.

66. (Previously Presented) A computer-readable medium according to Claim 12, wherein the cumulative feedback data is segregated for identified and unidentified task/domains.

67. (Previously Presented) A computer-readable medium according to Claim 12, wherein the cumulative feedback data is stored in a non-tabular data structure.

68. (Previously Presented) An apparatus according to Claim 17, wherein the digital storage device includes a table, and the task/domain segregation is by order of storage in the table.

69. (Previously Presented) An apparatus according to Claim 17, wherein the cumulative feedback data is segregated for identified and unidentified task/domains.

70. (Previously Presented) An apparatus according to Claim 17, wherein the digital storage device includes a non-tabular data structure.

**Please add Claims 71-78:**

71. (New) An apparatus according to Claim 1, wherein the means for storing cumulative feedback data stores cumulative feedback data that is gathered from multiple users and the multiple users include the user that inputted the current user command.

72. (New) A method according to Claim 7, wherein the stored cumulative feedback data is gathered from multiple users and the multiple users include the user that inputted the current user command.

73. (New) A computer-readable medium according to Claim 12, wherein the stored cumulative feedback data is gathered from multiple users and the multiple users include the user that inputted the current user command.

74. (New) An apparatus according to Claim 17, wherein the stored cumulative feedback data is gathered from multiple users and the multiple users include the user that inputted the current user command.

75. (New) An apparatus according to Claim 6, wherein the means for storing cumulative feedback data stores cumulative feedback data that is gathered from multiple users and the multiple users include the user that inputted the current user command.

76. (New) A method according to Claim 11, wherein the stored cumulative feedback data is gathered from multiple users and the multiple users include the user that inputted the current user command.

77. (New) A computer-readable medium according to Claim 16, wherein the stored cumulative feedback data is gathered from multiple users and the multiple users include the user that inputted the current user command.



78. (New) An apparatus according to Claim 21, wherein the stored cumulative feedback data is gathered from multiple users and the multiple users include the user that inputted the current user command.

***Reason for Allowance***

3. The prior art made of records does not teach or fairly suggest the combination of elements as recited in independent claims 1, 7, 12, and 17. More specifically, the prior art of records does not specifically teach or suggests as argued by Applicant's and further amended by an Examiner's amendment.

The dependent claim, being definite, further limiting, and fully enabled by the specification and are also allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Contact Information***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad Ali whose telephone number is (571) 272-4105. The examiner can normally be reached on Monday-Thursday (7:30 am-6:00 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Mohammad Ali  
Primary Examiner  
Art Unit 2167

MA  
August 22, 2005